

6.4 unlicensed national information infrastructure device (subpart E)

Test procedure	Description of test	Respected criteria?				Comment
		Yes	No	NAP	NAs	
FCC Part 15.407	GENERAL TECHNICAL REQUIREMENTS					
	a) <i>Power limits</i>	X				Note 1 ,Note 2
	a) (1) in the bands 5150–5250 MHz					
	a) (2) in the bands 5250–5350 MHz and 5470-5725 MHz			X		
	a) (3) in the bands 5725–5825 MHz			X		
	a) (4) maximum conducted output power	X				
	a) 5) peak power spectral density	X				Note 1 ,Note 2
	b) <i>Undesirable emission limits</i>					
	b) (1) outside of the bands 5150–5250 MHz	X				
	b) (2) outside of the bands 5250–5350 MHz			X		
	b) (3) outside of the bands 5470-5725 MHz			X		
	b) (4) outside of the bands 5725–5825 MHz			X		

NAP: Not Applicable

NAs: Not Asked

Note 1: the product is a drone so the limits applicable are a mobile limit

Note 2: The 26 dB bandwidth plots are on appendix 6.

RF EXPOSURE:

Maximum measured power 17.6mW

with $P = (E \times d)^2 / (30 \times G_p)$ with $d = 3 \text{ m}$ and $G_p = 2.51$

In accordance with KDB 447498 D01 General RF Exposure Guidance v05r02

$PSD = EIRP / (4 \times \pi \times R^2) = 189.29 / (4 \times \pi \times (20 \text{ cm})^2) = 3.5 \times 10^{-3} \text{ mW/cm}^2$ (limit= 1 mW/cm²).

The equipment fulfils the requirements on power density for general population/uncontrolled exposure and therefore fulfils the requirements of 47 CFR §1.1310.

« To declare, or not, the compliance with the specifications, it was not explicitly taken into account of uncertainty associated with the result(s) »